Web Images Videos Maps News Shopping Gmail more • Sign in Google scholar polymer bead, ionic drug Advanced Scholar Search Search Scholar Preferences Scholar Articles and patents anytime include citations Results 21 - 30 of about 21,1 [] Smart'polymers and what they could do in biotechnology and medicine IY Galaev, B Mattiasson - Trends in biotechnology, 1999 - Elsevier ... transition) above a certain threshold of an external stimulus such as pH, temperature, ionic strength or ... to control drug release, because the diffusion of the drug out of the beads depends on the ... When a smart polymer is integrated into a microcapsule wall [37] or a liposomal lipid ... Cited by 254 - Related articles - All 5 versions ... high-performance liquid chromatography using monodisperse polymer beads ... V Smigol, F Svec, JMJ Frechet - Analytical chemistry, 1994 - pubs.acs.org ... Chromatography Using Monodisperse Polymer ... A plot of log k' against ionic strength of the mobile phase for these beads shows the absence of hydrophobic interactions and documents the clean ion-exchange mechanism of protein separation. ... Cited by 18 - Related articles - Bt. Direct - All 3 versions ... and characterization of chitosan microparticles intended for controlled **drug** ... JA Ko, HJ Park, SJ Hwang, JB Park, JS Lee - International journal of ..., 2002 - Elsevier ... For example, chitosan beads, micro or nanoparticles were produced by ionic cross-linking with tripolyphosphate (TPP) (Bodmeier, Shiraishi and Calvo). Shu and Shu reported the chitosan bead, which was prepared with TPP, increased the drug loading efficiency as well as ... Cited by 115 - Related articles - All 6 versions Bioadhesive polymers as platforms for oral controlled **drug** delivery II: Synthesis ... HS Ch'Ng, H Park, P Kelly, JR ... - Journal of ..., 2006 - interscience.wiley.com ... of poly(acry1ic acid-divinyl glycol) was studied at con- stant temperature, ionic strength, and ... shown to have substantially longer GI transit times than the control, Amberlite 200 resin beads. ... acid polymer showed a longer GI transit time than the methacrylic acid polymer, and this ... Cited by 210 - Related articles - All 5 versions .. chloride crosslinked carboxymethyl guar gum **beads** for gastrointestinal **drug** ... RT Thimma, S Tammishetti - Journal of Applied Polymer ..., 2001 - interscience.wiley.com ... guar gum; microbeads; protein drugs; gastrointestinal delivery; microencapsulation; drug delivery systems; hydrophilic polymers; metal-polymer complexes. ... The drug loading efficiency of these Ba ++ /CMGG beads, as a function of concentration of both metal ion as well as ... Cited by 24 - Related articles - Bt. Direct - All 4 versions ... utilizing pH-/temperature-responsive polymer stationary phases to separate ionic ... J Kobayashi, A Kikuchi, K Sakai, T Okano - Anal, Chem, 2001 - pubs.acs.org ... Polymer hydrogel-modified silica beads were packed into a stainless steel column (150 mm × 4.6 mm id) from a slurry of **beads** in water/methanol (1:1) using a ... Mobile phase comprised

Alginate/chitosan particulate systems for sodium diclofenac release ML Gonzalez-Rodriguez, MA Holgado, C ... - International journal of ..., 2002 - Elsevier

Cited by 37 - Related articles - BL Direct - All 4 versions

phosphate/citrate buffer adjusted to constant ionic strength (I = 0.1) by addition of KCI. ...

... The anti-inflammatory **drug** (as sodium salt) is dissolved in an aqueous solution containing the soluble **polymer** and, in the case of carboxylate-containing polymers (alginate, carboxymethyl cellulose), the formation of ... The **ionic** gelation method gave **beads** with a high ...

Cited by 66 - Related articles - All 5 versions

## Functional polymer microspheres

H Kawaguchi - Progress in polymer science, 2000 - Elsevier

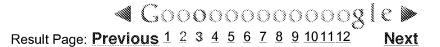
... It was concluded that Coulomb effect is dominant in the medium with low **ionic** strength but hydrophobic interaction becomes more important in the medium with higher **ionic** strength. ... 2.1.2. Use of thermosensitive polymers. **Polymer** gel **beads**, which are crosslinked particles ...

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... to prepare 100 [mu] m-sized microcapsules with prolonged **drug**-release by the ... H Ichikawa, K Fujioka, MC Adeyeye, Y ... - International journal of ..., 2001 - Eisevier ... **Ion**-exchange resin (IER)—**drug** complexes were used as core materials to explore ... a 100 μm-sized, highly **drug**-incorporated microcapsule with a prolonged **drug** release by ... and subsequently microencapsulated with two types of aqueous colloidal **polymer** dispersion, Aquacoat ... Cited by 36 - Related articles - Ali 3 versions

## [CITATION] lonic polymers as drug carriers

EH Schacht - Controlled **Drug** Delivery: Basic concepts, 1983 - CRC Cited by 9 - Related articles



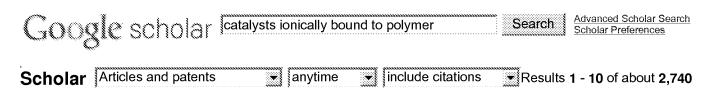
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Poly (N-isopropylacrylamide) soluble **polymer** supports in **catalysis** and synthesis DE Bergbreiter, BL Case, YS Liu, JW Caraway - Macromolecules, 1998 - pubs.acs.org ... turning off and then on as the **polymer-bound catalyst** dissolves and precipitates. This behavior is illustrated in Figure 2 below for hydrogenation of allyl alcohol by 22. figure Figure 2 On/off behavior exhibited for the Rh(I) hydrogenation **catalyst** (22) **bound ionically** to a PNIPAM ... Cited by 151 - Related articles - BL Direct - All 6 versions

## Combinatorial chemistry using polymer-supported reagents

SW Kaldor, MG Siegel - Current Opinion in Chemical Biology, 1997 - Elsevier

... 1). Stoichiometric reagents and **catalysts** participate in the formation of product, while scavengers are ... solution at the end of the reaction are those that remain **bound** to the ... Our definition of polymersupported reagents includes **ionically** or covalently linked activating reagents (eg ... Cited by 53 - Related articles - Bt. Direct - All 3 versions

Palladium/phosphinated polystyrene as a catalyst in the Heck arylation. A ... CM Andersson, K Karabelas, A Hallberg, C ... - The Journal of Organic ..., 1985 - pubs.acs.org ... For ionically bound palladium(II), see: (1) Holy, NL; Shelton, SR Tet- rahedron 1981, 37 ... polymer-bound phosphine ligands tend to be less efficient than phosphines in solution in stabilizing ... metal particle and metal complex catalysis is not restricted to supported catalysts but ... Cited by 53 - Related articles - Ali 2 versions

... photooxidations with molecular oxygen using metal phthalocyanines as catalysts ... D Wohrie, O Suvorova, R Gerdes, O ... - JOURNAL OF ..., 2004 - worldscinet.com ... 2 or covalently and coordinatively **bound** on SiO 2 and organic **polymers** or **ionically bound** on an ... Heterogeneous **catalysts** can exhibit higher activities then low molecular weight phthalocyanines. ... A Si(IV) phthalocyanine derivative on a **polymer** ion exchanger is most active ... Cited by 31 - Related articles - St. Direct

... protected by surface-**bound** monolayers of thiolated poly (ethylene glycol) **polymer** ... WP Wuelfing, SM Gross, DT Miles, RW Murray - J. Am. Chem. Soc, 1998 - pubs.acs.org ... Nanometer Gold Clusters Protected by Surface-**Bound** Monolayers of Thiolated Poly(ethylene glycol ... fabrication and potential application in areas as diverse as **catalysis**, nonlinear optics ... 5 in new **polymer** electrolyte media, a semisolid having an **ionically** conductive nanophase ... Cited by 88 - Related articles - Bt. Direct - All 4 versions

### Supported transition metal complexes as catalysts

FR Hartley, PN Vezey - Adv. Organomet. Chem, 1977 - books.google.com

... been reported in the last decade or so in which enzymes **bound** to organic **polymers** or glass supports have been studied (80), the idea of binding homogeneous **catalysts** to solid ... polystyrene resins in which the metal complex (eg,[Pt (NH3) 4] 2+) was **ionically bound** to the ...

Cited by 109 - Related articles - All 2 versions

#### [PDF] Antithrombogenic polymers

M Jozefowicz, J Jozefonvicz - Pure Appl Chem, 1984 - old.iupac.org

... Therefore, a suitable anticoagulant biomaterial should be a **catalyst** of inhibition reactions of the coagulation ... their heparin content by exposure to the blood stream, if the covalently **bound** heparin remains ... remain potent a longer time than it is the case for **ionically bound** heparin. ...

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# Heterogeneous anionic transition metal catalysts

RS Drago, A El A'mma - US Patent 4,417,077, 1983 - Google Patents

... of an anionic species con- taining the transition metal which is **ionically bound** to , - > an ... EXAMPLE 1 In accordance with this invention, heterogeneous anionic metal catalysts are prepared by ... This indi- 30 cates the presence of the identical anion which is ionic- ally bound to the ...

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... epoxidation of dienes using polymer-supported manganese porphyrin catalysts

E Brule, YR de Miguel, KKM Hii - Tetrahedron, 2004 - Elsevier

... The catalytic loading of the polymer beads, verified by %Mn analysis (ICP-AES), was between 0.26 and 0.53 mmol/g. ... 1,2-epoxide 8, to typically less than 1.7:1. 10 The most selective supported manganese catalyst reported to date is a Mn(III) porphyrin ionically bound to poly(4 ...

Cited by 13 - Related articles - All 3 versions

.... -based olefin metathesis catalyst to polymeric phases: preparation of a catalyst on ... A Michrowska, K Mennecke, U Kunz, A Kirschning, ... - J. Am. Chem. ..., 2006 - pubs.acs.org

... These results show the potential applicability of glass-polymer composite Raschig rings in a ... mode (Scheme 4). This protocol allows simultaneous immobilization of both the catalyst and its ... solution during olefin metathesis can be re-trapped by excess of ionically bound ligand 9 ...

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